

**TENTATIVE**

FUJITSU GENERAL LIMITED

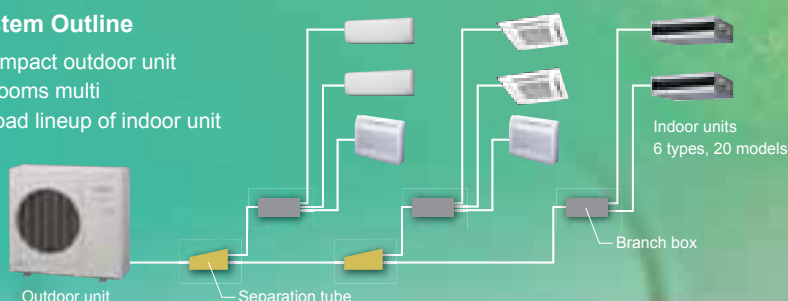
# High performance compact outdoor unit realizing high efficiency and comfort

Flexible multi system contains high-level functions in a compact body to comfortably control 8 rooms. An indoor unit connection capacity from 11.2 kW to 18.2 kW is possible, and indoor units with a capacity of 2.0 kW to 7.0 kW can be selected and combined to meet the application. Installation is easy and saves space, so we can recommend this system for a wide range of applications including community housing, single-unit residences, and stores.



## System Outline

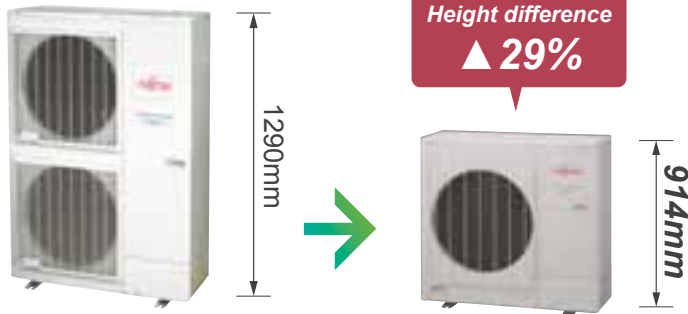
- Compact outdoor unit
- 8 rooms multi
- Broad lineup of indoor unit



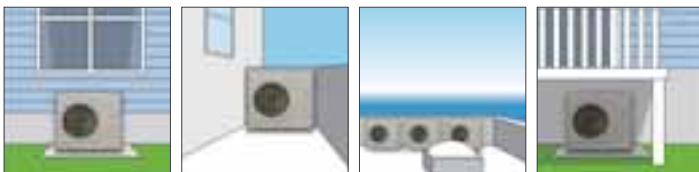
# Compact Outdoor Unit



About 14kW class  
multi split model

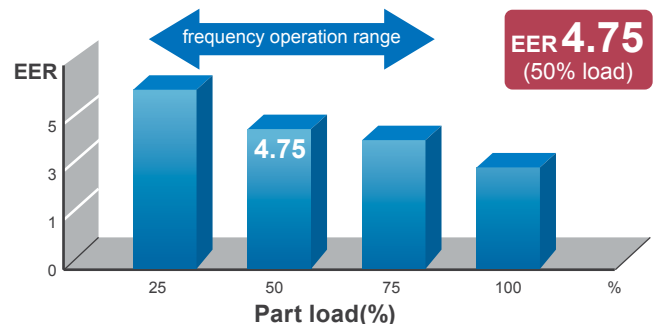


Compact and lightweight outdoor unit is easy to carry in. It can be installed in various obscure places.



## High seasonal efficiency

The actual performance is conducted under various outside temperatures depending on weather and seasons, furthermore, especially for multi system, not all the rooms are operated all the time. So over 90% of actual operation time, air conditioners are operated at partial capacity instead of rated capacity. Considering these, we focused on energy-saving performance which is based on actual use. Efficiency of part load performance was drastically improved by developing ALL DC and our own inverter system.



### Innovated technology



**High efficiency large fan :**  
New high efficiency fan is mounted.



**High efficiency DC twin rotary compressor :**  
A high performance, low noise, large capacity DC twin rotary compressor is used.



**DC fan motor :**  
High performance and high efficiency has been realized by using a small DC fan motor.

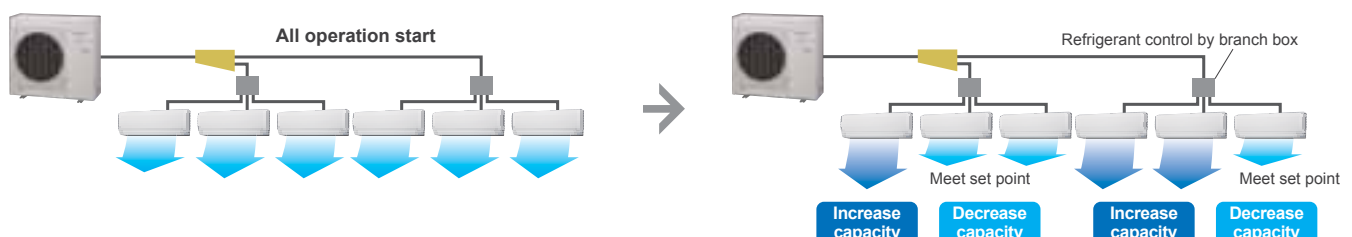


**Heat exchanger :**  
Reduced compact size and energy saving has been realized by utilizing high density piping design and 3-Row heat exchanger.

## More Comfort

### Quick comfort by optimized refrigerant control

Every room meets set point most quickly and comfortably by optimized refrigerant control.



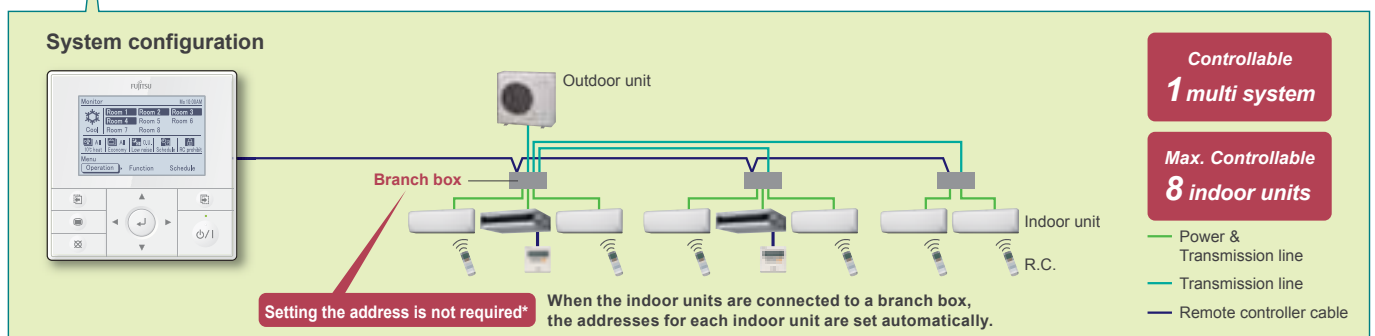
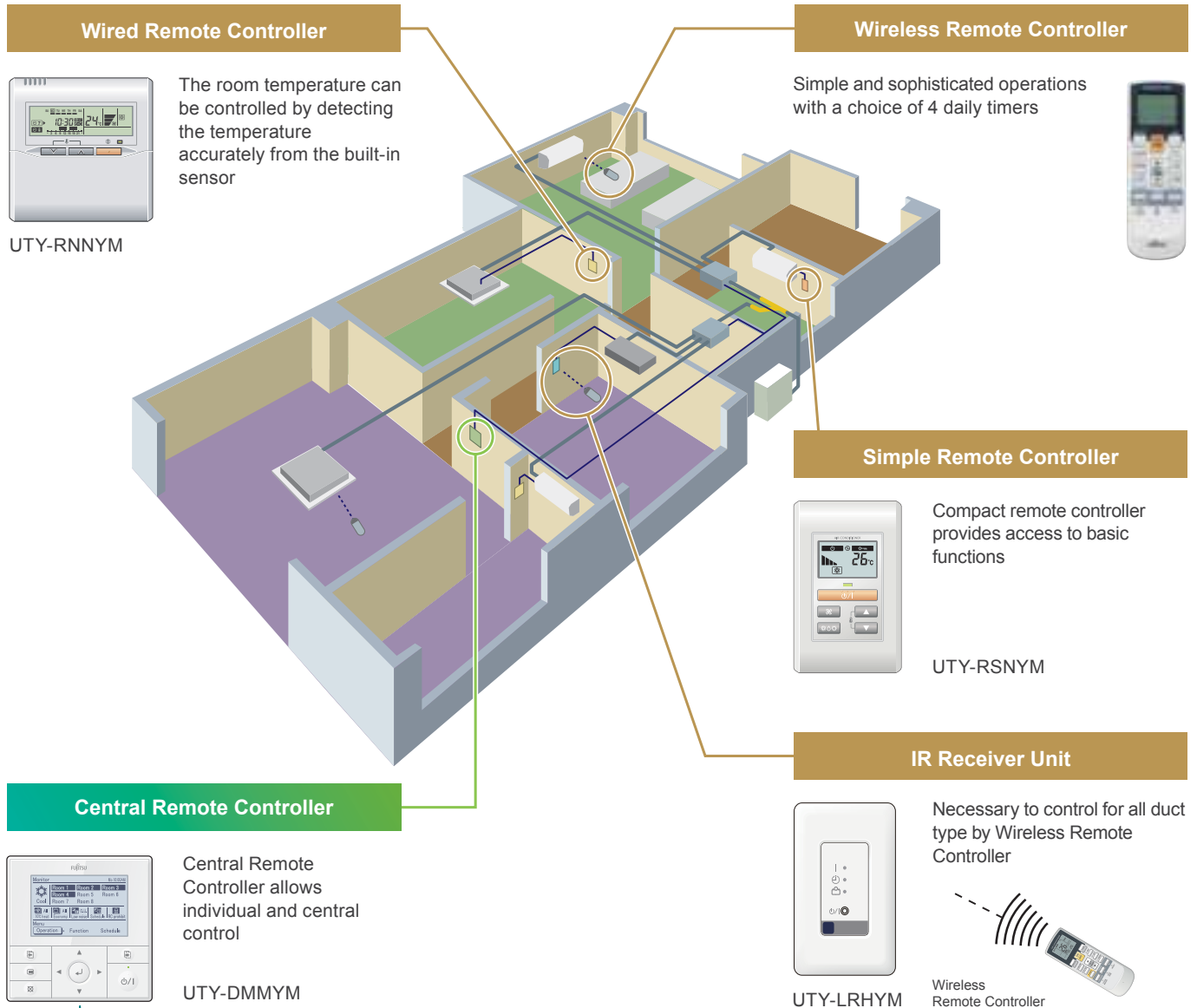


# Convenient control system



## System overview

All indoor units are provided with wireless or wired remote controllers as standard equipment. Other options, such as individual and central remote controllers, are also available. The easy-to-operate central remote controller makes it simple to control the operation mode, temperature, airflow volume, timer, and other functions of each indoor unit from a single location.



\*Note : Cross-over connections are not allowed in the refrigerant system. Group settings are not allowed.

# Central Remote Controller



**Central remote controller developed for residential applications.**  
**All indoor units can be batched controlled using simple operations. Schedule management and other functions can be used to achieve even greater energy savings.**



UTY-DMMYM

## Central & Individual Control

Batched control of up to 8 indoor units. The temperature, airflow volume, and remote control prohibition settings of all indoor units can be batched.

## User-friendly operation

- Large backlight LED screen
- Large easy-to-see operation panel

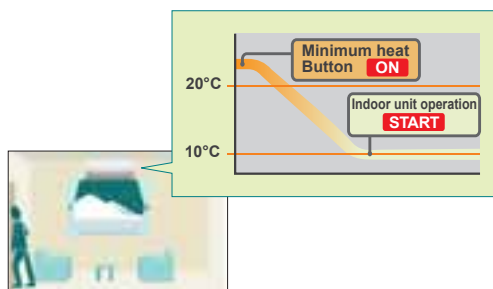
## Multiple language support

Corresponds to 9 different languages (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)

## Comfort control

### 10°C heat operation

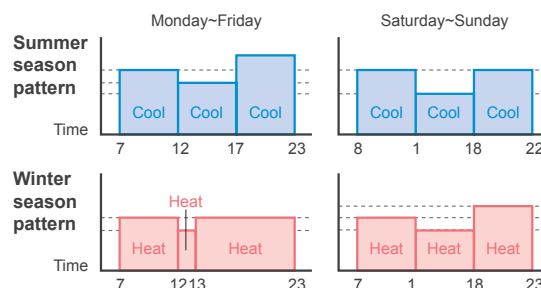
When you leave, minimum heating operation is performed to maintain the room temperature (maintain at 10°C).



## Convenience

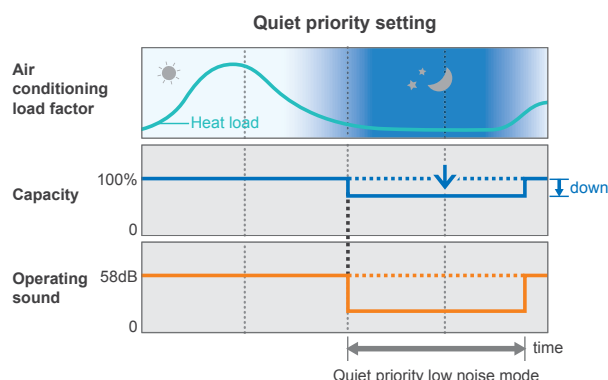
### Weekly schedule timer

The ON/OFF setting can be set for 4 times a day. Two weekly patterns can be set to match the cooling and heating seasons.



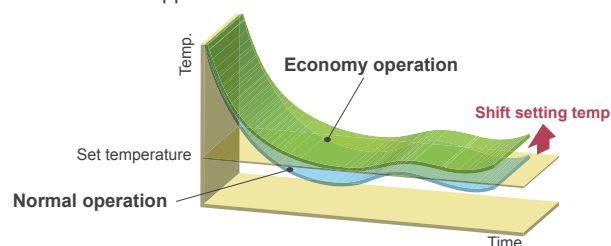
## Low noise operation

Users can choose from 4 low noise levels, depending on the installation environment. The operation time can be set using the timer.



## Economy operation

Economy operation is energy saving, as the set temperature of indoor unit is shifted by 1°C and the maximum electric value of the outdoor unit is suppressed.



## Prohibited Settings

The remote controller operation of all indoor units comes with a lock function to prevent unapproved operations in the various rooms. The central remote controller also has a key lock function to prevent children from playing with it, etc

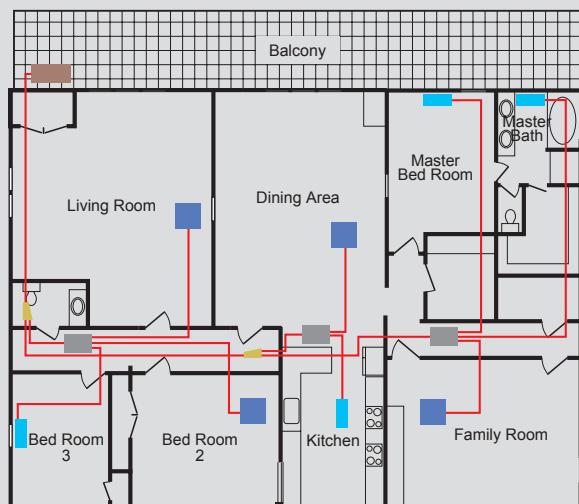
# Flexible Design



A variety of installation patterns can be supported using the branch box connection method.

## Examples

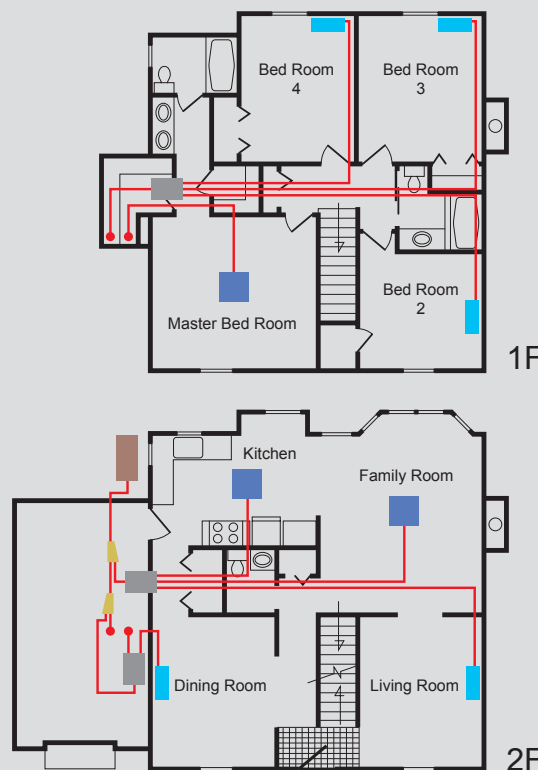
### Residential 1-story home



- Outdoor unit
- 2.5 kW Indoor unit
- 2.0 kW Indoor unit
- Branch box

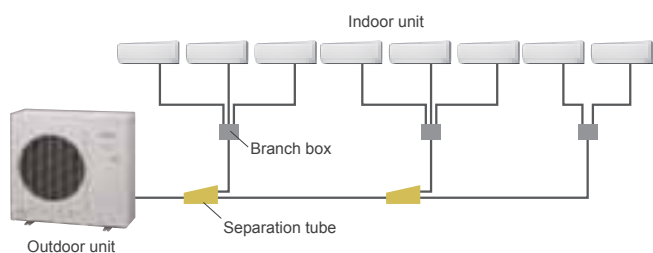
## Examples

### Residential 2-story home



## Large capacity connection

Up to 8 indoor units can be connected to one outdoor unit.  
A maximum of 130% indoor unit connectable capacity. Match any room layout



Connectable indoor unit capacity  
**Ratio up to 130%**

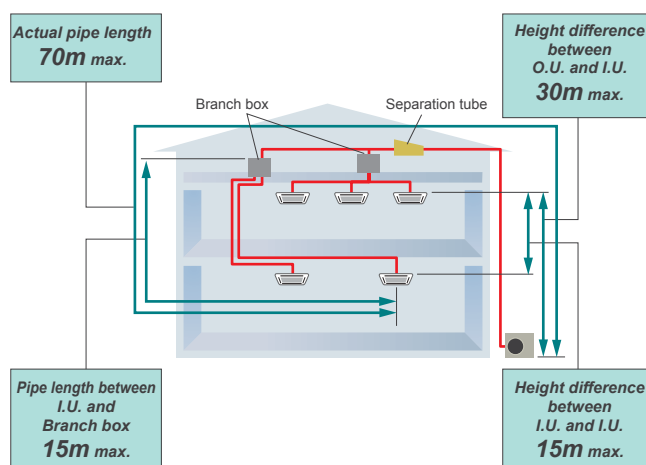
Connectable indoor unit number  
**Up to 8**

\*At least 2 units must be connected.

## Long piping design

Can be installed in high rise condominium or commercial building

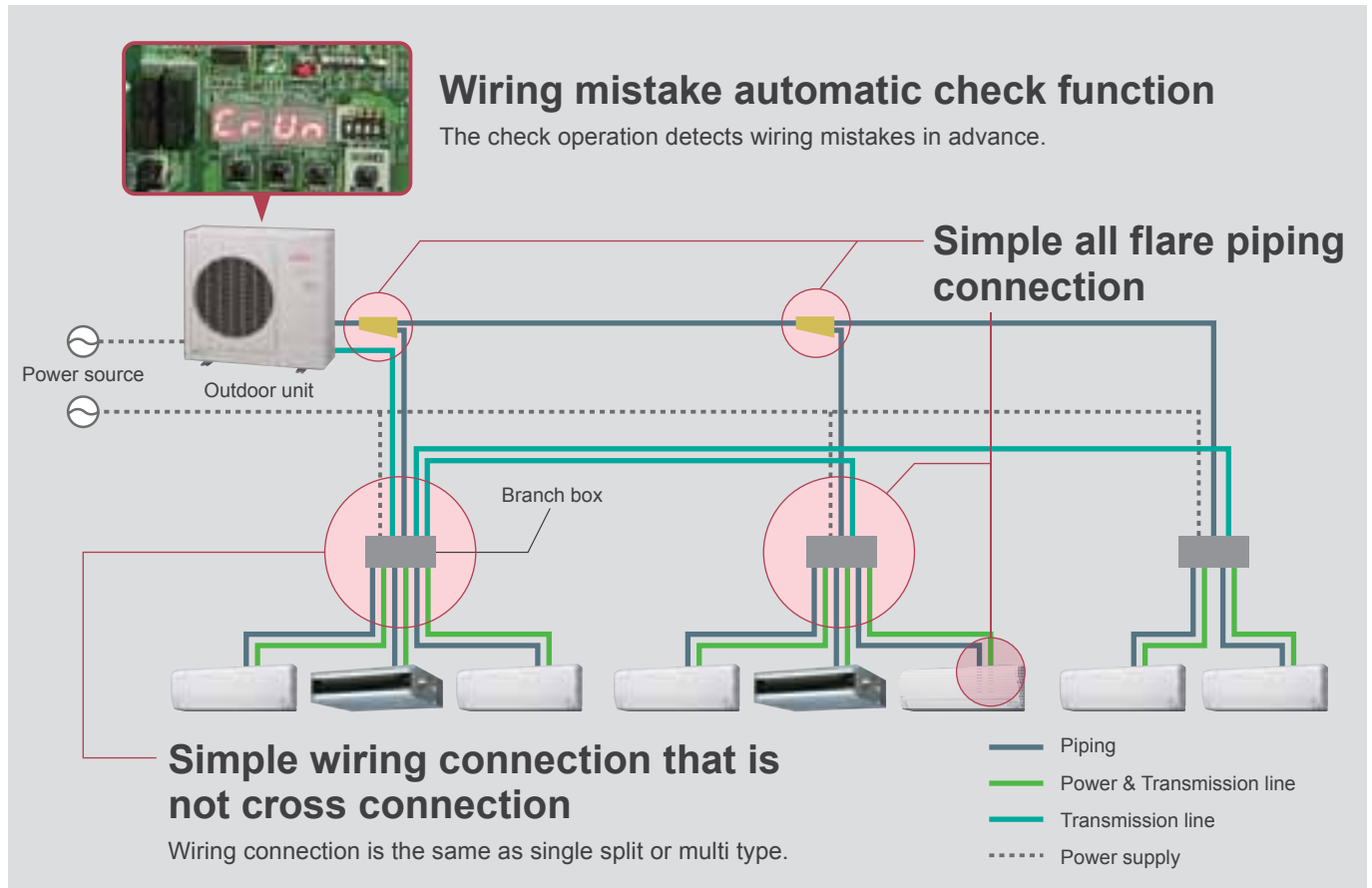
Total pipe length  
**115m max.**



# Easy Installation

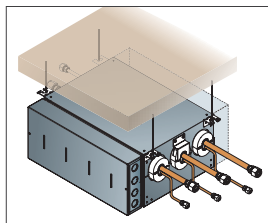


All flare piping connection and simple installation that minimizes wiring mistakes.



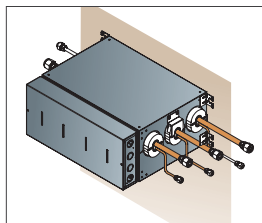
## Branch Box

### Allowed Branch Box Mounting Direction



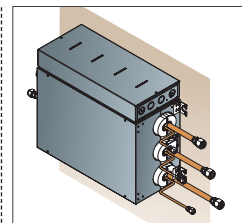
#### Hanging from the ceiling

Do not hang from the ceiling when performing a vertical installation.



#### Horizontal Wall Mounting

Install the unit with its top side facing upwards.



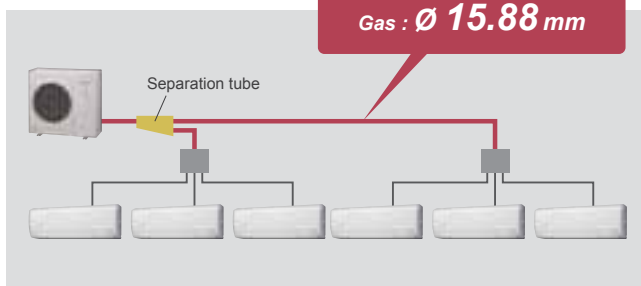
#### Vertical Wall Mounting

Install the unit with the control box facing upwards.

## Common main pipe diameter

Common main pipe diameter improves piping workability.

**Common**  
Liquid :  $\varnothing 9.52 \text{ mm}$   
Gas :  $\varnothing 15.88 \text{ mm}$



## Lightening of outdoor unit

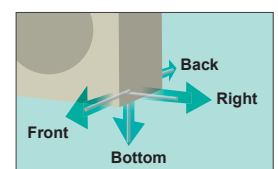
Easier to carry and install.

Can be carried by 2 people



## 4-way piping connection

Four directions piping connection is possible. The perfect route can be selected according to the installation.



# Flexible Multi System Outdoor unit

AOYG45LAT8 DC



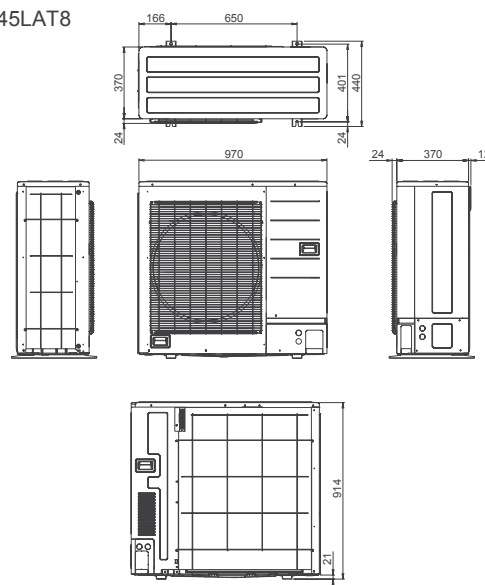
## Specifications

Model name			AOYG45LAT8
Maximum Connectable Indoor Unit			8
Indoor unit connectable capacity	Cooling	kW	11.2 - 18.2
Power source		V/ Ø/Hz	230/1/50
Rated Capacity	Cooling	kW	14.0
	Heating		16.0
Input Power	Cooling	kW	5.20
	Heating		5.07
Air flow rate	Cooling	m³/h	4,650
	Heating		4,800
Sound pressure level	Cooling	dB(A)	56
	Heating		58
Heat exchanger fin			Plate fin coil
Net Dimensions H x W x D		mm	914 x970x370
Weight		kg(lbs)	98 (217)
Piping Connections (Small / Large)		mm	9.52/15.88
Max Pipe Length		m	115 (Total)
Max Height Difference (O.U ~ I.U)			30
Operating range	Cooling	°CDB	-5 to 46
	Heating		-15 to 24
Refrigerant			R410A

## Dimensions

Outdoor Unit  
AOYG45LAT8

(Unit : mm)





# Connectable Indoor unit lineup

Full lineup of 6 types and 20 models

Class	7,000BTU 2.0kW	9,000BTU 2.5kW	12,000BTU 3.5kW	14,000BTU 4.0kW	18,000BTU 5.0kW	24,000BTU 7.0kW
Compact Wall Mounted	 ASYG07LJCA	 ASYG09LJCA	 ASYG12LJCA			
Wall Mounted					 ASYG18LFCA	 ASYG24LFCA
Floor		 AGYG09LVCA	 AGYG12LVCA	 AGYG14LVCA		
Floor / Ceiling				 ABYG14LVTA	 ABYG18LVTA	
Compact Cassette	 AUYG07LVLA	 AUYG09LVLA	 AUYG12LVLA	 AUYG14LVLA	 AUYG18LVLA	
Slim Duct	 ARYG07LLTA	 ARYG09LLTA	 ARYG12LLTA	 ARYG14LLTA	 ARYG18LLTA	

## Feature Explanation

### Comfortable function



#### Up / down swing flaps

The up/down flaps automatically swing up and down.



#### Auto restart

In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once the power supply is restored.



#### Connectable fresh air duct



#### Double swing automatic

Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.



#### Auto-changeover

The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.



#### Fresh air intake

Fresh air can be taken in by a fan which can be connected using external control unit.



#### Automatic air flow adjustment

The micro-computer automatically adjusts the air flow effectively to follow the changes of room temperature.



#### 10°C HEAT operation

The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.



#### Economy mode

Limits the maximum operation current, and performs operation with the power consumption suppressed.

### Clean function



#### Long-life ion deodorization filter

The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.



#### Apple-catechin filter

Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol extracted from apples.



#### Washable panel

### Convenient function



#### Sleep timer

The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.



#### Program timer

This digital timer allows selection of one of four options: ON, OFF, ON → OFF or OFF → ON.



#### Weekly + setback timer

Weekly + Setback timer can set temperature for two times spans and for each day of the week.



#### Filter sign

Indicates the filter cleaning period by lamp. To enable Filter sign, it has to be selected on the function setting.

# Compact Wall Mounted Type Simple design with energy saving.

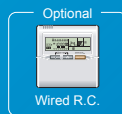
ASYG07LJCA

ASYG09LJCA

ASYG12LJCA



Wired R.C.  
Optional



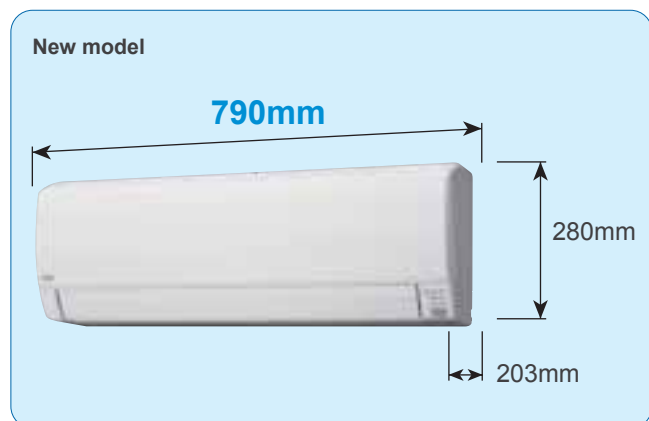
Wired R.C.



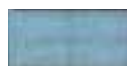
Wireless R.C.



## Compact design



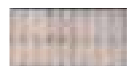
## Air conditioner filter features



**Long-life\***  
ion deodorization filter

The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

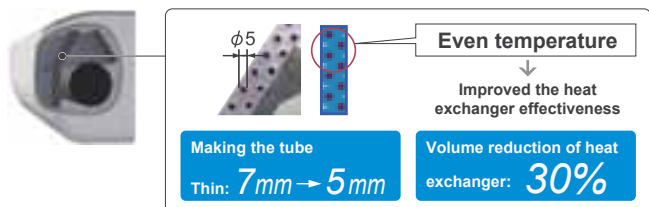
\*The filter can be used for approx. 3 years if it is washed under water to restore its surface action when it is dirty.



**Apple-catechin filter**

Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol extracted from apples.

## High density heat transfer tube arrangement



## Easy maintenance

### Removable & washable panel



## More Comfort & Convenience

- Powerful cooling & heating by using DC fan motor
- Auto-restart function memorizes the operating mode as before, once the power supply is restored.
- Comfortable timer (ON, OFF, PROGRAM, SLEEP)

## Optional parts

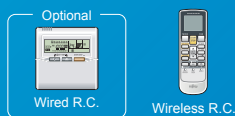
- Wired Remote Controller: UTY-RNNYM
- Simple Remote Controller: UTY-RSNYM
- External Connect Kit: UTY-XWZX
- Communication Kit: UTY-XCBXZ1
- Apple Catechin Filter: UTR-FA16 (Replacement parts)
- Ion Deodorization Filter: UTR-FA16-2 (Replacement parts)

## Specifications

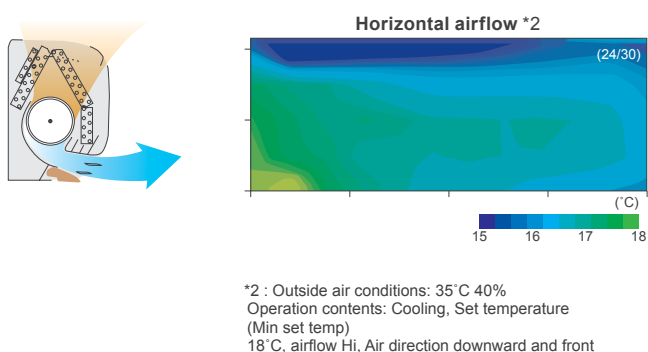
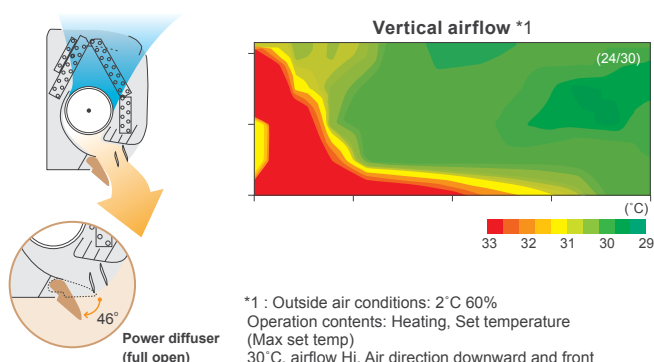
Model No.			ASYG07LJCA	ASYG09LJCA	ASYG12LJCA
Power source		V/ø/Hz	230/1/50	230/1/50	230/1/50
Air flow rate (C/H)	High	m³/h	560/560	600/600	660/660
	Med				
Sound pressure level (C/H)	High	dB(A)	36/36	37/37	40/40
	Med		32/32	33/33	36/36
	Low		29/29	29/29	30/31
	Quiet		25/25	25/25	25/25
Dimensions H x W x D Net Weight		mm	280 x 790 x 203		
		kg(lbs)	8(18)		
Connection pipe diameter	Liquid	mm	ø6.35		
	Gas		ø9.52		

# Wall Mounted Type Simple & elegant appearance design

ASYG18LFCA  
ASYG24LFCA



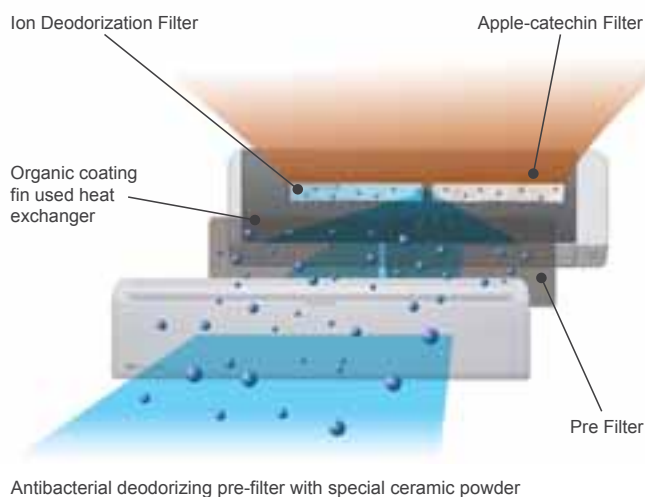
**“Vertical airflow” provides powerful floor level heating & “Horizontal airflow” does not blow cool air directly at the occupants in the room**



## Easy maintenance

Simplification of drain pan cleaning improves maintenance-ability.

## Air conditioner filter features



## Optional parts

Wired Remote Controller: UTY-RNNYM  
Simple Remote Controller: UTY-RSNYM  
External Connect Kit: UTY-XWZX  
Apple Catechin Filter: UTR-FA13-1 (Replacement parts)  
Ion Deodorization Filter: UTR-FA13-2 (Replacement parts)

## Specifications

Model No.			ASYG18LFCA	ASYG24LFCA
Power source	V/ø/Hz		230/1/50	230/1/50
Air flow rate (C/H)	High	m³/h	900/900	1,100/1,120
Sound pressure level (C/H)	High	dB(A)	43/42	47/48
	Med		37/37	42/42
	Low		33/33	37/37
	Quiet		26/25	32/32
Dimensions H x W x D Net Weight	mm		320 x 998 x 228	
	kg(lbs)		14(31)	
Connection pipe diameter	Liquid	mm	ø6.35	
	Gas		ø12.70	ø15.88

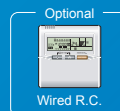
# Floor

Simple & Thin design harmonizes with the interior

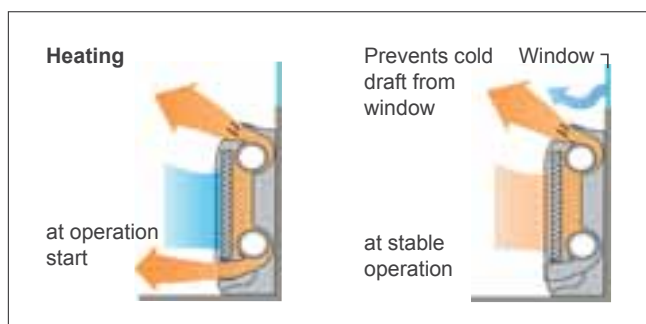
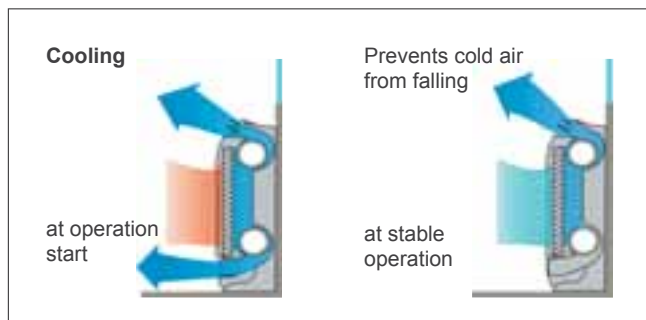
AGYG09LVCA  
AGYG12LVCA  
AGYG14LVCA



Wired R.C.  
Optional



## 2-Fan & Wide airflow



## Filter features

### Long-life\* ion deodorization filter

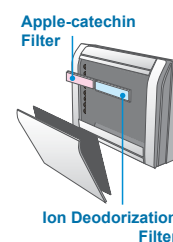
The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

\*The filter can be used for approx. 3 years if it is washed under water to restore its surface action when it is dirty.

+ Using different filters at both sides

### Apple-catechin filter

Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol extracted from apples.



## Easy maintenance

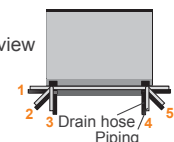
Washable panel removable

Removable panel



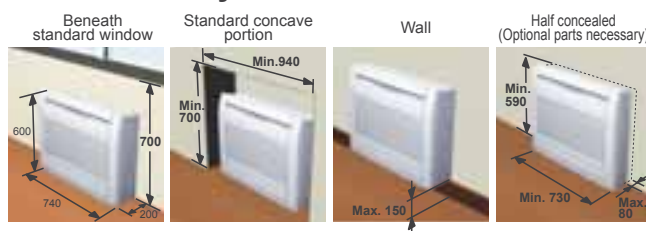
## Flexible piping connection 6 direction of drain & piping

Back view



## Flexible & easy installation

(unit:mm)



## Optional parts

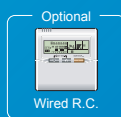
Wired Remote Controller: UTY-RNNYM  
Simple Remote Controller: UTY-RSNYM  
Half Concealed Kit: UTR-STA  
External Connect Kit: UTY-XWZX  
Apple Catechin Filter: UTR-FC03-2 (Replacement parts)  
Ion Deodorization Filter: UTR-FC03-3 (Replacement parts)

## Specifications

Model No.			AGYG09LVCA	AGYG12LVCA	AGYG14LVCA
Power source	V/ø/Hz		230/1/50	230/1/50	230/1/50
Air flow rate (C/H)	High	m³/h	530/530	600/600	650/650
Sound pressure level (C/H)	High	dB(A)	39/39	42/42	44/44
	Med		34/35	36/38	38/39
	Low		28/30	30/32	31/33
	Quiet		22/22	22/22	22/22
Dimensions H x W x D Net Weight	mm		600 x 740 x 200		
	kg(lbs)		14(31)		
Connection pipe diameter	Liquid	mm	ø6.35		
	Gas		ø9.52		
					ø12.70

# Floor / Ceiling

ABYG14LVTA  
ABYG18LVTA



## Flexible installation

Example for floor installation

Floor console



## Example for ceiling installation

Under ceiling



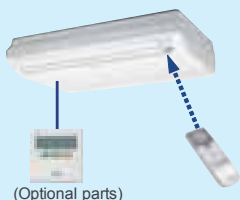
## Easy installation

Main work settings can be done easily from the remote controller at installation

### Main work settings

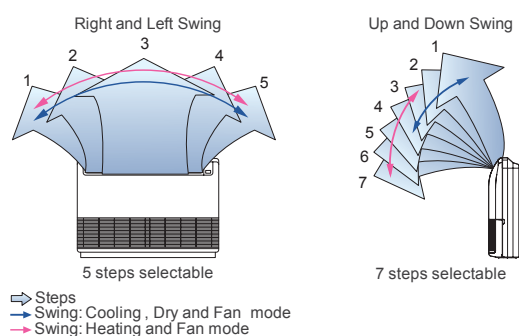
- High ceiling setting
- Auto restart
- Temperature adjustment when cooling / heating

### Setting by wireless or wired remote controller



## Double auto swing

A combination of right/left and up/down directional swing allows 3-dimensional air direction control



## Optional parts

Wired Remote Controller: UTY-RNNYM  
Simple Remote Controller: UTY-RSNYM  
External Connect Kit: UTY-XWZX

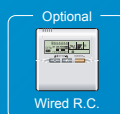
## Specifications

Model No.			ABYG14LVTA	ABYG18LVTA
Power source	V/ø/Hz		230/1/50	230/1/50
Air flow rate (C/H)	High	m³/h	640/640	780/780
Sound pressure level (C/H)	High	dB(A)	36/36	41/41
	Med		34/34	38/38
	Low		33/33	34/34
	Quiet		29/29	32/32
Dimensions H x W x D Net Weight	mm		199 x 990 x 655	
	kg(lbs)		27(60)	
Connection pipe diameter	Liquid	mm	ø6.35	
	Gas		ø12.70	



# Compact Cassette Powerful wide air flow & Quiet operation

AUYG07LVLA  
AUYG09LVLA  
AUYG12LVLA  
AUYG14LVLA  
AUYG18LVLA



Grille is an option

## Easy maintenance

### 1 Maintenance of fan motor and fan

Maintenance of the fan motor and fan can be done easily after taking off the panel as the bell mouth of the fan can be removed easily.

A : Fan motor B : 2-stage turbo fan  
C : Bell-mouth D : Panel

### 2 Long life filter

: standard equipment



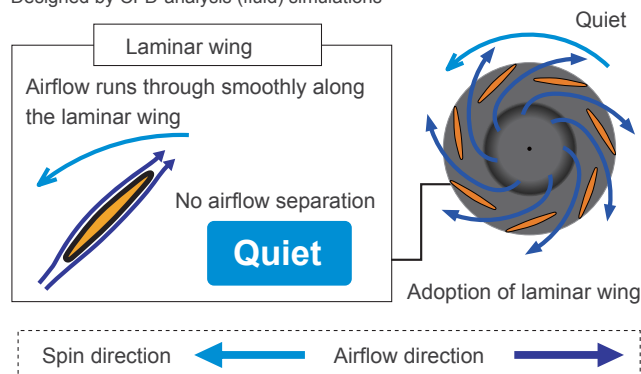
### 3 Adaptation of transparent drainage parts

During installation, maintenance and operation, the drain pump and kit can be checked easily.

## Quiet quality

Optimization of wing form (laminar wing type) and wing number (7 blades each)

Designed by CFD-analysis (fluid) simulations



## 2-stage turbo fan

High efficiency design by 2 stage structure

**Wind velocity**

**Fast**

**Slow**

**2-stage turbo fan**

A evenly spread air distribution across the heat exchanger is possible due to the new 2 stage turbo fan which produces two separate airflow streams.

Heat exchange efficiency:

**20%UP**

## Optional parts

Wired Remote Controller: UTY-RNNYM  
Simple Remote Controller: UTY-RSNYM  
Air Outlet Shutter Plate: UTR-YDZB  
Fresh Air Intake Kit: UTZ-VXAA  
Insulation Kit For High Humidity: UTZ-KXGC  
External Connect Kit: UTY-XWZX

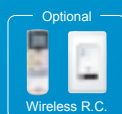
## Specifications

Model No.			AUYG07LVLA	AUYG09LVLA	AUYG12LVLA	AUYG14LVLA	AUYG18LVLA
Power source		V/ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Air flow rate (C/H)	High	m³/h	540/540	540/540	610/610	680/700	750/800
Sound pressure level (C/H)	High	dB(A)	33/34	33/34	37/37	40/40	42/44
	Med		31/32	31/32	33/33	35/37	37/41
	Low		29/29	29/29	31/31	32/34	33/37
	Quiet		26/27	26/27	27/28	27/29	27/30
Dimensions H x W x D Net Weight		mm	245 x 570 x 570				
		kg(lbs)	15(33)				
Connection pipe diameter	Liquid	mm	ø6.35				
	Gas		ø9.52			ø12.70	
Panel			UTG-UFYD-W				

# Slim Duct

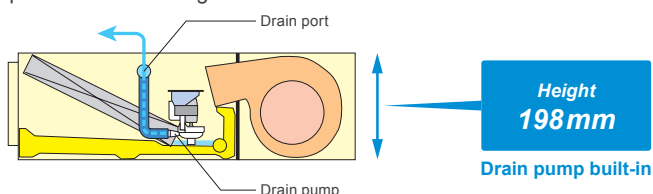
• Slim design with drain pump • Increase static pressure range • Dual concealed type

ARYG07LLTA  
ARYG09LLTA  
ARYG12LLTA  
ARYG14LLTA  
ARYG18LLTA



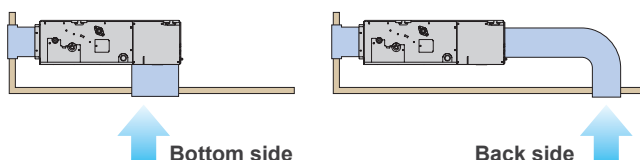
## Slim design

This model is slim design, it can install at the place where a ceiling is narrow.



## Air-intake

Air intake direction can be selected to match the installation site.



## Selectable with a wide range of static pressure

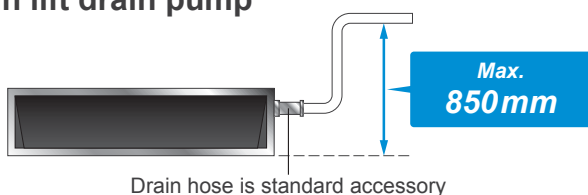
By using DC fan motor, it is possible to change the static pressure range 0 to 90Pa.

The change of static pressure range is possible by remote controller.



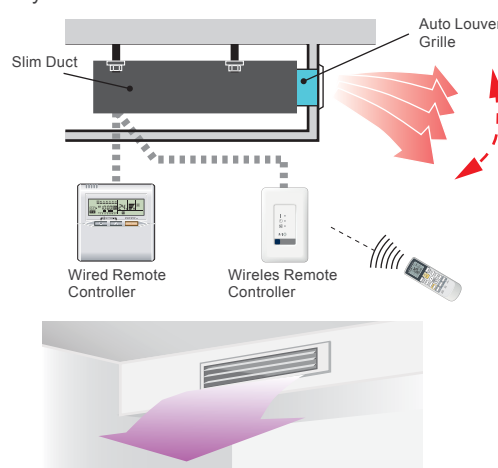
Static pressure range  
0 to 90 Pa

## High lift drain pump



## Auto Louver Grille Kit (Option)

Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.



## Flexible installation

Ceiling concealed



Floor concealed



## Optional parts

Simple Remote Controller: UTY-RSNYM  
IR Receiver Unit: UTY-LRHYM  
Remote Sensor Unit: UTY-XSZX  
External Control Set: UTD-ECS5A  
Auto Louver Grille Kit: UTD-GYSA (for ARYG07/09/12/14LATU)  
UTD-GYSB (for ARYG18LATU)

## Specifications

Model No.			ARYG07LLTA	ARYG09LLTA	ARYG12LLTA	ARYG14LLTA	ARYG18LLTA
Power source		V/ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Air flow rate (C/H)	High	m³/h	550/550	600/600	650/650	800/800	940/940
Static pressure range		Pa	0 to 90				
Sound pressure level (C/H)	High	dB(A)	28/28	28/28	29/29	32/32	32/33
	Med		25/25	27/26	28/28	30/30	31/32
	Low		24/24	26/25	27/27	28/28	30/31
	Quiet		22/22	25/24	26/24	26/24	29/29
Dimensions H x W x D Net Weight		mm	198 x 700 x 620				198 x 900 x 620
		kg(lbs)	18(40)	19(41)			23(50)
Connection pipe diameter	Liquid	mm	ø6.35			ø12.7	
	Gas		ø9.52				

# Optional Parts

## Connection Units

### Branch Box

UTP-PY03A



3 zones type

UTP-PY02A



2 zones type

### Separation tube

UTP-SX248A



Liquid pipe



Gas pipe

## Controllers

**Central Remote Controller**  
UTY-DMMYM



**Wired Remote Controller**  
UTY-RNNYM



**Simple Remote Controller**  
UTY-RSNNM



**IR Receiver Unit**  
UTY-LRHYM  
For Slim Duct Type



## Others

**Grille Kit**  
UTG-UFYD-W  
For Compact Cassette type



**Air Outlet Shutter Plate**  
UTR-YDZB  
For Compact Cassette Type

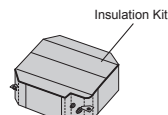
Shuts the air outlet when only using as 3 blow out.



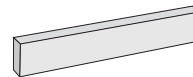
**Fresh Air Intake Kit**  
UTZ-VXAA  
For Compact Cassette Type



**Insulation Kit for High Humidity**  
UTZ-KXGC  
For Compact Cassette Type



**Half Concealed Kit**  
UTR-STA  
For Floor Type  
This kit is used to half conceal floor type indoor unit into the wall.



**Auto Louver Grille Kit**  
UTD-GYSA  
(for ARYG07/09/12/14LATU)  
UTD-GYSB  
(for ARYG18LATU)  
For Slim Duct type



**External Connect Kit**  
UTY-XWZX  
For Compact Wall Mounted Type

Wall Mounted Type  
Floor Type  
Ceiling Type  
Compact Cassette Type



**Communication Kit**  
UTY-XCBXZ1  
For Compact Wall Mounted Type

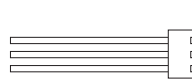


**Remote Sensor Unit**  
UTY-XSZX (FUTURE RELEASE)  
For Slim Duct Type

New amenity space can be offered by installing the Remote sensor.



**External Control Set:**  
UTD-ECS5A  
For Slim Duct Type



**External connect kit**  
UTY-XWZXZ3  
For Outdoor unit



**External connect kit (For Base heater)**  
UTY-XWZXZ4  
For Outdoor unit



**Apple catechin filter**  
UTR-FA16  
For Compact Wall Mounted Type  
UTR-FC03-2  
For Floor Type



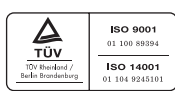
**Apple catechin filter**  
UTR-FA13-1  
For Wall mounted type



**Ion deodorization filter**  
UTR-FA16-2  
For Compact Wall Mounted Type  
UTR-FC03-3  
For Floor Type



**Ion deodorization filter**  
UTR-FA13-2  
For Wall mounted type



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Fujitsu General (Thailand) Co., Ltd.



ISO 9001  
Certified number : 01 100 79269  
Fujitsu General (Shanghai) Co., Ltd.



ISO 14001  
Certified number : 272043  
Fujitsu General (Shanghai) Co., Ltd.



ISO 9001  
Certified number : 00608Q11061R2M  
Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.



N807

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